



DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY WASHINGTON
1411 PARSONS AVENUE ST STE. 303
WASHINGTON NAVY YARD DC 20374-5003

5090
Ser N4/ 301
June 10, 2016

Ms. Karen Crumlish (3WP21)
EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: STAGE 2 DISINFECTANTS AND DISINFECTION BYPRODUCT RULE (DBPR),
WASHINGTON NAVY YARD (DC00000003)

Enclosed is the Stage 2 Disinfectants and Disinfection Byproduct Rule (DBPR) for the monitoring period May 2016 for the Washington Navy Yard.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or email: dane.bowker@navy.mil.

Sincerely,

A handwritten signature in blue ink, reading "Durant S. Graves", is positioned above the printed name.

DURANT S. GRAVES
Installation Environmental Program Director
By direction of the Commanding Officer

Enclosures: 1. Stage 2 DBPR Report
2. Certificate of Analysis

Water System: Washington Navy Yard
PWSID: DC0000003
Report Period: May 2016

- Steps: 1. Use data from three previous quarters
2. Enter sample date and results for current quarter of monitoring in the blue column
3. Summarize results for the quarter. The number of samples should include the number of any repeat samples.

Total Trihalomethanes (TTHM)
Reported as mg/L or ppm

Number of TTHM samples taken per quarter: 5
Operational Evaluation Levels exceeded (Yes/No): No
TTHM MCL violations: 0

| | | Three Most Recent Quarters of Sampling Results | | | | Current Quarter | | |
|------------------------|---------------|--|-------------------|------------------|-------------|---|--|--|
| Scheduled Sample Month | | August 2015 | November 2015 | February 2016 | May 2016 | | | |
| Actual Sample Date: | | Not required | November 18, 2015 | February 3, 2016 | May 4, 2016 | | | |
| Location ID | Location Name | | | | | Operational Evaluation Level (OEL) | Locational Running Annual Average (LRAA) | |
| DR2C | WNY-111 | 0.0757 | 0.0470 | 0.0147 | 0.0513 | 0.038 | 0.047 | |
| 2AEP2 | WNY-122 | 0.0751 | 0.0357 | 0.1350 | 0.0516 | 0.035 | 0.074 | |
| DR1E | WNY-211 | 0.0746 | 0.0476 | 0.0150 | 0.0555 | 0.038 | 0.048 | |
| 2BWNY | WNY-212 | 0.0779 | 0.0434 | 0.0144 | 0.0502 | 0.038 | 0.046 | |
| | | | | | | If TTHM OEL is > 0.080, perform Operational Evaluation. | If TTHM LRAA is > 0.080, MCL violation occurred. | |

Five Haloacetic Acids (HAA5)
Reported as mg/L or ppm

Number of HAA5 samples taken per quarter: 5
Operational Evaluation Levels exceeded (Yes/No): No
HAA5 MCL violations: 0

| | | Three Most Recent Quarters of Sampling Results | | | Current Quarter | | |
|------------------------|---------------|--|------------------|------------------|-----------------|---|--|
| Scheduled Sample Month | | August 2015 | November 2015 | February 2016 | May 2016 | | |
| Actual Sample Date: | | Not required | November 18, 201 | February 3, 2016 | May 4, 2016 | | |
| Location ID | Location Name | | | | | Operational Evaluation Level (OEL) | Locational Running Annual Average (LRAA) |
| DR2C | WNY-111 | 0.0358 | 0.0309 | 0.0114 | 0.0293 | 0.022 | 0.027 |
| 2AEP2 | WNY-122 | 0.0367 | 0.0243 | 0.0110 | 0.0320 | 0.021 | 0.026 |
| DR1E | WNY-211 | 0.0401 | 0.0266 | 0.0172 | 0.0319 | 0.025 | 0.029 |
| 2BWNY | WNY-212 | 0.0373 | 0.0299 | 0.0116 | 0.0349 | 0.023 | 0.028 |
| | | | | | | If HAA5 OEL is > 0.060, perform Operational Evaluation. | If HAA5 LRAA is > 0.060, MCL violation occurred. |

May 16, 2016

Mr. Kosala De Silva
Inspection Experts, Inc.
8711 Arrowtip Lane
Lewis Center, OH 43035

Certificate of Analysis

Project Name: **Washington Navy Yard**Workorder: **2141225**

Purchase Order:

Workorder ID: **Washington Navy Yard**

Dear Mr. Silva:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, May 4, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

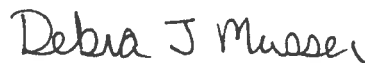
If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. George Tsamoulaes

Ms. Debra J. Musser
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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SAMPLE SUMMARY

Workorder: 2141225 Washington Navy Yard

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|------------|----------------|----------------|----------------|---------------------|
| 2141225001 | WNY-211 | Drinking Water | 5/4/2016 08:45 | 5/4/2016 21:00 | Collected by Client |
| 2141225002 | WNY-111 | Drinking Water | 5/4/2016 09:45 | 5/4/2016 21:00 | Collected by Client |
| 2141225003 | WNY-212 | Drinking Water | 5/4/2016 11:52 | 5/4/2016 21:00 | Collected by Client |
| 2141225004 | WNY-212DUP | Drinking Water | 5/4/2016 11:54 | 5/4/2016 21:00 | Collected by Client |
| 2141225005 | WNY-122 | Drinking Water | 5/4/2016 11:03 | 5/4/2016 21:00 | Collected by Client |
| 2141225006 | WNY-FB | Drinking Water | 5/4/2016 10:11 | 5/4/2016 21:00 | Collected by Client |
| 2141225007 | WNY-TB | Drinking Water | 5/4/2016 10:11 | 5/4/2016 21:00 | Collected by Client |

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SAMPLE SUMMARY

Workorder: 2141225 Washington Navy Yard

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |

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ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225001**

Date Collected: 5/4/2016 08:45

Matrix: Drinking Water

Sample ID: **WNY-211**

Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-------------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | 18.1 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| Chlorodibromomethane | 6.3 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| Chloroform | 31.2 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| Total Trihalomethanes | 55.5 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 88.2 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| 4-Bromofluorobenzene (S) | 84 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 05:26 | SYB | A |
| HALOACETIC ACID | | | | | | | | | | |
| TOTAL HAA | 31.9 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Bromochloroacetic NOT FOR PA | 7.7 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Dibromoacetic | 2.1 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Dichloroacetic | 14.8 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Monobromoacetic | <1.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Monochloroacetic | 2.9 | | ug/L | 2.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| Trichloroacetic | 12.1 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 2,3-Dibromopropionic Acid (S) | 113 | | % | 70 - 130 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:15 | KJH | D |

Debra J Musser

Ms. Debra J. Musser

Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225002**

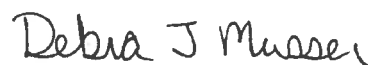
Date Collected: 5/4/2016 09:45

Matrix: Drinking Water

Sample ID: **WNY-111**

Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-------------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | 18.1 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| Chlorodibromomethane | 6.0 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| Chloroform | 27.2 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| Total Trihalomethanes | 51.3 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 84.6 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| 4-Bromofluorobenzene (S) | 88.6 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 05:49 | SYB | A |
| HALOACETIC ACID | | | | | | | | | | |
| TOTAL HAA | 29.3 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Bromochloroacetic NOT FOR PA | 6.9 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Dibromoacetic | 1.8 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Dichloroacetic | 13.3 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Monobromoacetic | <1.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Monochloroacetic | 2.7 | | ug/L | 2.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| Trichloroacetic | 11.5 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 2,3-Dibromopropionic Acid (S) | 111 | | % | 70 - 130 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:34 | KJH | D |



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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225003**

Date Collected: 5/4/2016 11:52

Matrix: Drinking Water

Sample ID: **WNY-212**

Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-------------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | 17.8 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| Chlorodibromomethane | 6.1 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| Chloroform | 27.6 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| Total Trihalomethanes | 51.5 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 85.4 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| 4-Bromofluorobenzene (S) | 85.2 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 06:11 | SYB | A |
| HALOACETIC ACID | | | | | | | | | | |
| TOTAL HAA | 37.7 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Bromochloroacetic NOT FOR PA | 7.2 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Dibromoacetic | 1.9 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Dichloroacetic | 21.6 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Monobromoacetic | <1.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Monochloroacetic | 3.0 | | ug/L | 2.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| Trichloroacetic | 11.1 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 2,3-Dibromopropionic Acid (S) | 127 | | % | 70 - 130 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 09:54 | KJH | D |

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ANALYTICAL RESULTS

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225004**
Sample ID: **WNY-212DUP**

Date Collected: 5/4/2016 11:54 Matrix: Drinking Water
Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-------------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | 16.5 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| Chlorodibromomethane | 6.1 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| Chloroform | 26.3 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| Total Trihalomethanes | 48.9 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 82.6 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| 4-Bromofluorobenzene (S) | 84.5 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 03:13 | SYB | A |
| HALOACETIC ACID | | | | | | | | | | |
| TOTAL HAA | 32.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Bromochloroacetic NOT FOR PA | 8.1 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Dibromoacetic | 2.2 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Dichloroacetic | 14.4 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Monobromoacetic | <1.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Monochloroacetic | 2.7 | | ug/L | 2.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| Trichloroacetic | 12.8 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 2,3-Dibromopropionic Acid (S) | 124 | | % | 70 - 130 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:13 | KJH | D |

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225005**
Sample ID: **WNY-122**

Date Collected: 5/4/2016 11:03 Matrix: Drinking Water
Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-------------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | 17.0 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| Chlorodibromomethane | 6.1 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| Chloroform | 28.4 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| Total Trihalomethanes | 51.6 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 83.2 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| 4-Bromofluorobenzene (S) | 84 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 03:35 | SYB | A |
| HALOACETIC ACID | | | | | | | | | | |
| TOTAL HAA | 32.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Bromochloroacetic NOT FOR PA | 7.8 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Dibromoacetic | 2.1 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Dichloroacetic | 14.8 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Monobromoacetic | <1.0 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Monochloroacetic | 2.5 | | ug/L | 2.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| Trichloroacetic | 12.6 | | ug/L | 1.0 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 2,3-Dibromopropionic Acid (S) | 125 | | % | 70 - 130 | EPA 552.2 | 5/10/16 16:00 | GEC | 5/14/16 10:32 | KJH | D |

Debra J Musser
Ms. Debra J. Musser
Project Coordinator

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225006**

Date Collected: 5/4/2016 10:11

Matrix: Drinking Water

Sample ID: **WNY-FB**

Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| Chlorodibromomethane | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| Chloroform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| Total Trihalomethanes | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 84.4 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |
| 4-Bromofluorobenzene (S) | 85 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 09:54 | SYB | A |

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 2141225 Washington Navy Yard

Lab ID: **2141225007**

Date Collected: 5/4/2016 10:11

Matrix: Drinking Water

Sample ID: **WNY-TB**

Date Received: 5/4/2016 21:00

| Parameters | Results | Flag | Units | RDL | Method | Prepared | By | Analyzed | By | Cntr |
|-----------------------------|----------------|-------------|--------------|---------------|---------------|-----------------|-----------|-----------------|-----------|-------------|
| VOLATILE ORGANICS | | | | | | | | | | |
| Bromodichloromethane | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| Bromoform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| Chlorodibromomethane | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| Chloroform | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| Total Trihalomethanes | <0.50 | | ug/L | 0.50 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| <i>Surrogate Recoveries</i> | <i>Results</i> | <i>Flag</i> | <i>Units</i> | <i>Limits</i> | <i>Method</i> | <i>Prepared</i> | <i>By</i> | <i>Analyzed</i> | <i>By</i> | <i>Cntr</i> |
| 1,2-Dichlorobenzene-d4 (S) | 88.5 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |
| 4-Bromofluorobenzene (S) | 84.7 | | % | 70 - 130 | EPA 524.2 | | | 5/6/16 15:24 | TMP | A |

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ALS Environmental

14000 Old York Road, Suite 100, York, PA 17403 • Phone: 717.844.5544 • Fax: 717.844.1430

Client Name: Inspection Experts, Inc. - Navy Yard / USNO

Address: 9220 Rumsey Rd, Bay 5

Columbia, MD 21045

Contact: Kosala De Silva

Phone: 410-715-3939(O)

Project Name: NAVFAC / WNY / 15-0011-204

Bill To: kosala@ieinc.net

TAT ☒ Normal-Standard TAT is 10-12 business days.

☐ Rush-Subject to ALS approval and surcharges.

Date Required: _____ Approved By: _____

Email? ☒ Y kosala@ieinc.net

Fax? ☐ Y No.

Sample Description/Location

(as it will appear on the lab report)

Sample Date Time

1 WNY-211 5/4/2016 0845

2 WNY-111 5/4/2016 0945

3 WNY-212 5/4/2016 1152

4 WNY-212DUP 5/4/2016 1154

5 WNY-122 5/4/2016 1103

6 WNY-FB 5/4/2016 1011

7 WNY-TB 5/4/2016 1011

8

9

10

Project Comments:

LOGGED BY (signature): _____

REVIEWED BY (signature): _____

Relinquished By / Company Name

Date Time

1 P. De Silva 5/4/16 1430

3 P. De Silva 5/4/16 1522

5 P. De Silva 5/4/16 1620

7 P. De Silva 5/4/16 2100

9

Received By / Company Name

Date Time

1 P. De Silva 5/4/16 1430

3 P. De Silva 5/4/16 1522

5 P. De Silva 5/4/16 1620

7 P. De Silva 5/4/16 2100

9

Generated by ALS

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /

SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:

ALS Qu



* 2 1 4 1 2 2 5 *

Lab)

Cooler Temp: 1 Therm ID: 352

No. of Coolers: Y N Initial

Custody Seals Present?

(If present) Seals intact?

Received on Ice?

COC Labels Complete/Accurate?

Cont. In Good Cond.?

Correct Containers?

Correct Sample Volumes?

Correct Preservation?

Headspace/Volatiles?

Courier/Tracking #:

Sample/COC Comments

Enter Number of Containers Per Sample or Field Results Below.

Stage II Analysis (THM EPA 524.2)

Stage II Analysis (HAA5 EPA 552.2)

Temp (°C)

pH

Total Cl

Matrix

Deliverables

Standard

CLP-like

USACE

Special Processing

USACE

Navy

State Samples Collected In

NY

NJ

PA

NC

DC

Sample Disposal

Lab

Special

Reportable to PADEP?

Yes

PWSID #

EDDS: Formal Type

ALS Field Services: o Pickup o Labor o Composite Sampling o Rental Equipment o Other:

Rev 8/04

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057